

**COMPOSITIONS AND METHODS FOR INHIBITING  
CELLULAR PROLIFERATION**

**ABSTRACT OF THE INVENTION**

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Compositions and methods for inhibiting cellular proliferation wherein the composition contains Tissue Factor Pathway Inhibitor (TFPI), a TFPI homolog, or an active fragment thereof. TFPI exhibits potent anti-proliferative activity on human and other animal cells, particularly endothelial cells. More particularly, the TFPI, TFPI homolog, and inhibitory fragment thereof may be combined with a pharmaceutically acceptable excipient or carrier and used to inhibit angiogenesis and angiogenesis-related diseases such as cancer, arthritis, macular degeneration, and diabetic retinopathy.